

Patent Application  
Docket No. GJE-7169  
Serial No. 10/520,323

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Examiner : Laura Schuberg  
Art Unit : 1657  
Applicants : Christopher Robin Lowe, Craig J.L. Gershater, and Colin A.B. Davidson  
Serial No. : 10/345,532  
Conf. No. : 5107  
Filed : January 5, 2005  
For : Monitoring of Cells

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

DECLARATION OF CHRISTOPHER ROBIN LOWE, CRAIG J.L. GERSHATER, and COLIN  
ALEXANDER BENNETT DAVIDSON UNDER 37 CFR 1.131

Sir:

We, CHRISTOPHER ROBIN LOWE, CRAIG J.L. GERSHATER, and COLIN ALEXANDER BENNETT DAVIDSON hereby declare:

THAT, we are co-inventors of the technology described and claimed in U.S. patent application Serial No. 10/520,323;

Being thus duly qualified, do further declare as follows:

THAT, we conceived of the subject matter of the above-referenced invention prior to May 1, 2002, as evidenced by the printouts of slides from an internal presentation given at a time prior to May 1, 2002, attached herewith as Exhibit A.

THAT, from a time prior to May 1, 2002, we worked diligently on this invention at least until the July 9, 2002 filing date of United Kingdom patent application No. 0215879.8, from which the subject application claims priority.

We hereby further declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Further declarants sayeth naught.

By: \_\_\_\_\_ Date \_\_\_\_\_  
Christopher Robin Lowe

By: \_\_\_\_\_ Date \_\_\_\_\_  
Craig J.L. Gershater

By: \_\_\_\_\_ Date \_\_\_\_\_  
Colin Alexander Bennett Davidson

## EXHIBIT A

# FERMENTER ON A CHIP: EPISODE 1

SCIENCE

AND TA

CHIPS

BY JEFFREY A.

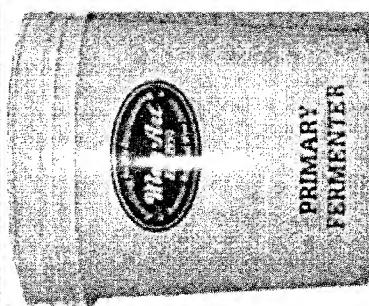
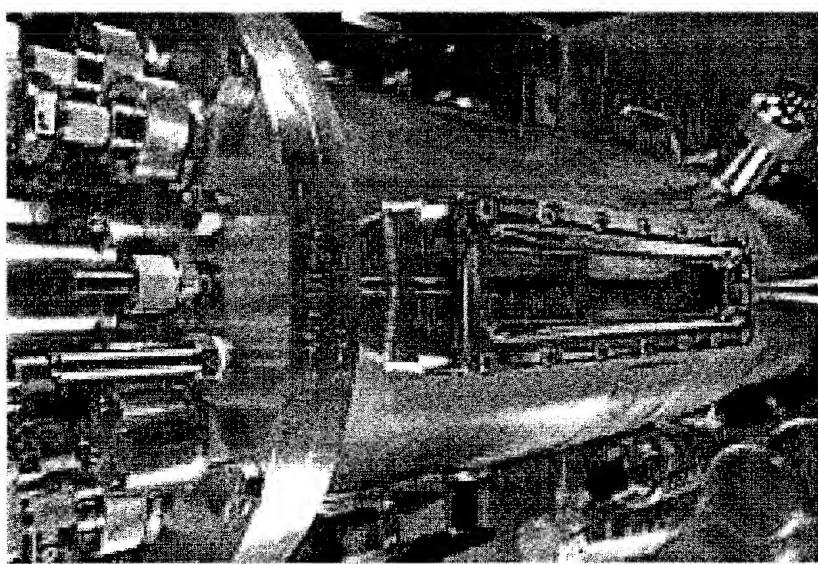
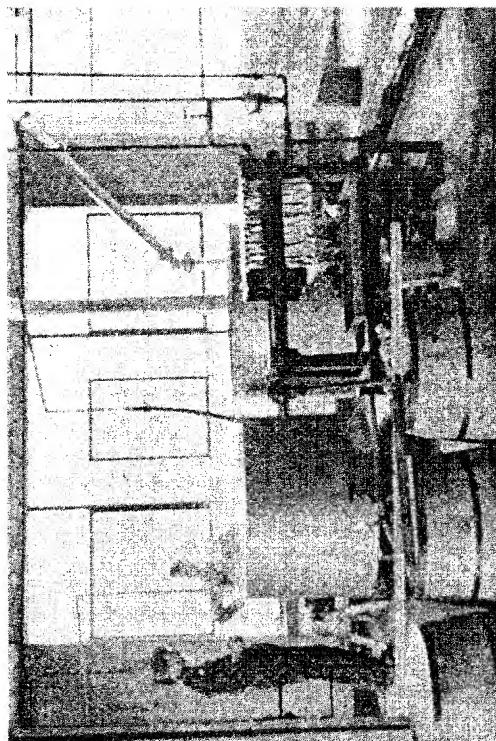
COHEN

PHOTOGRAPH BY

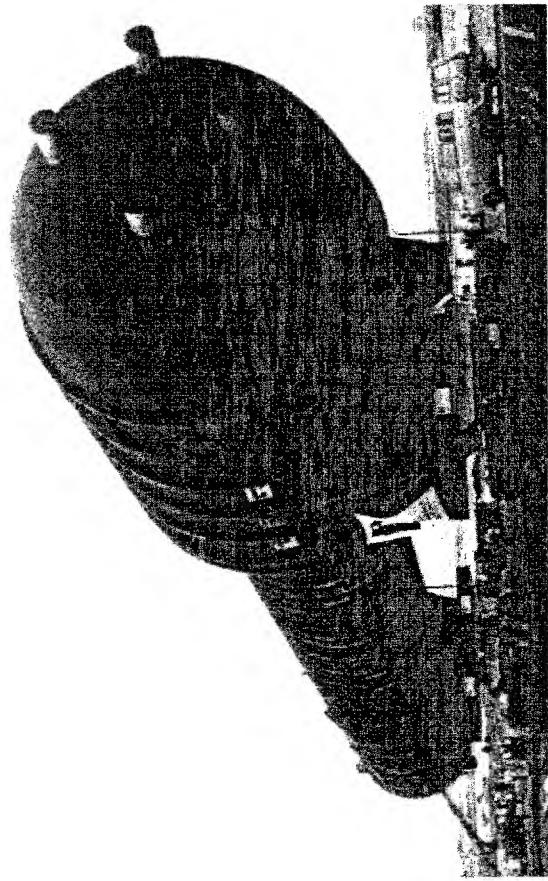
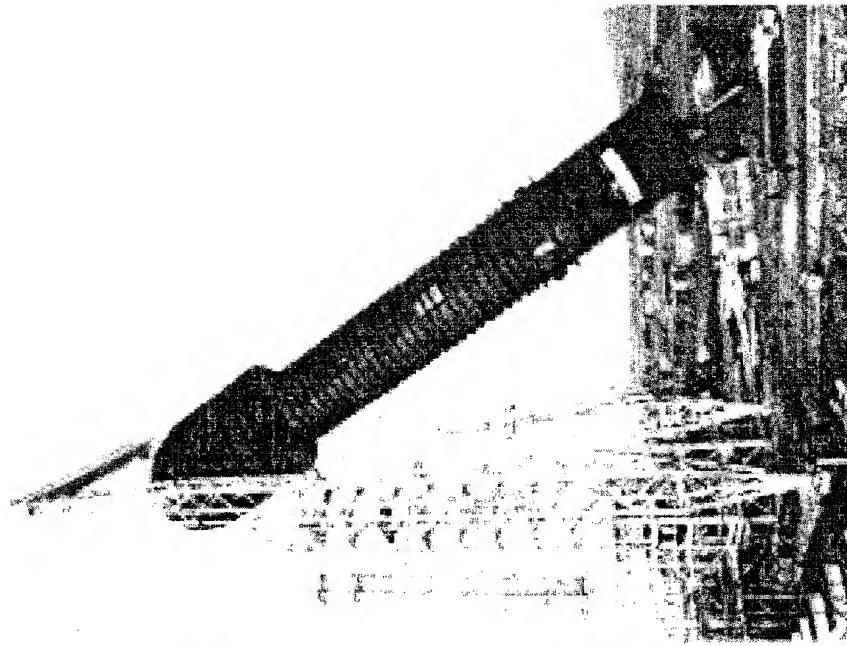
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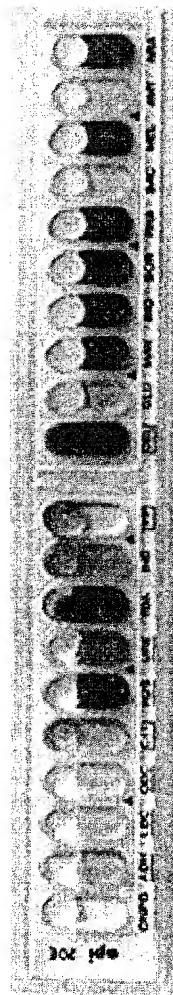
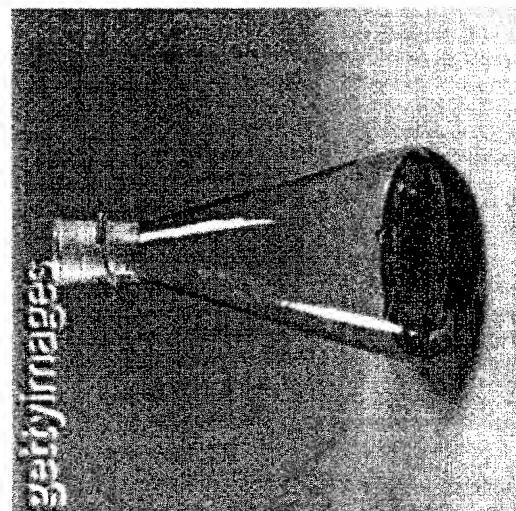
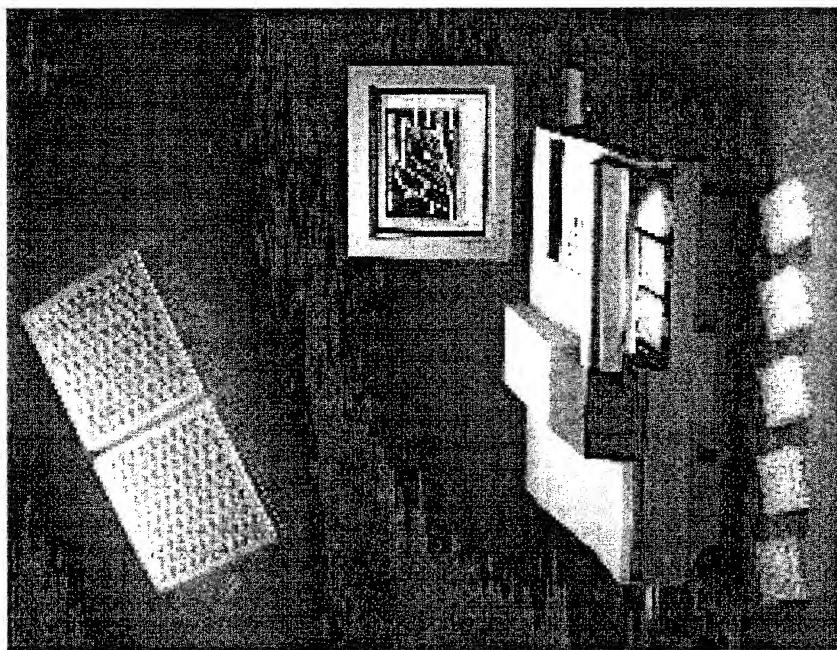
ARMED WITH HIS LIGHT SENSOR THE  
YOUNG SCIENTIST MOVES TO  
INTERCEPT THEIR PESKY PLANS  
BEFORE IT WAS TOO LATE. SMASHING  
THE PROBLEM OF PH SENSING,  
WALL-OFFING THE GOALS OF  
METABOLITE DETECTION, HE NOW  
TRAVELS TO THE DEPTHS OF THE  
DARK ROOM TO FACE HIS NEMESIS,  
DARTH OXYGEN.

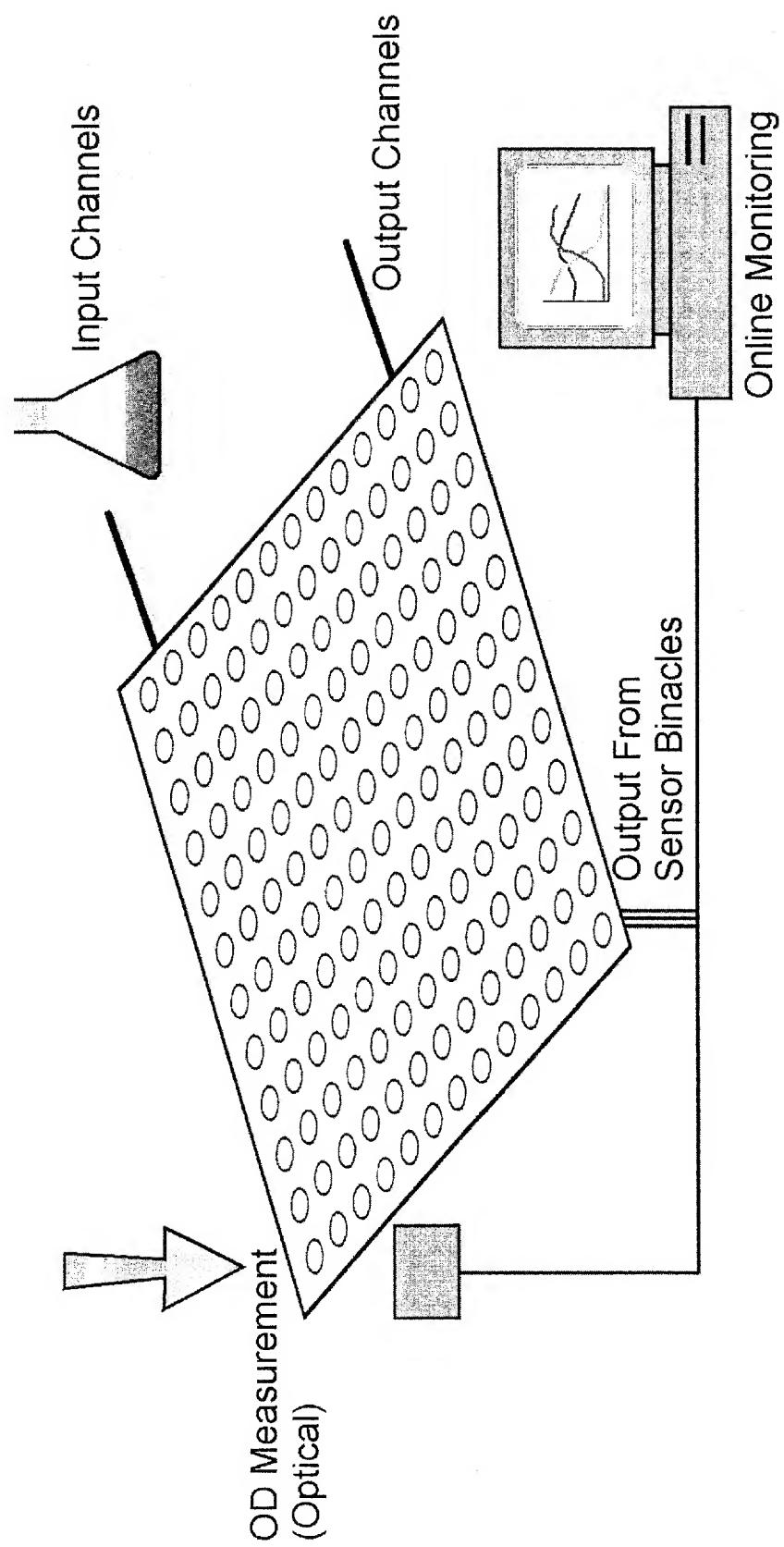
AND HE WOULD HAVE GOT AWAY  
WITH IT TOO IF IT WASN'T FOR THOSE  
PESKY BACTERIA...

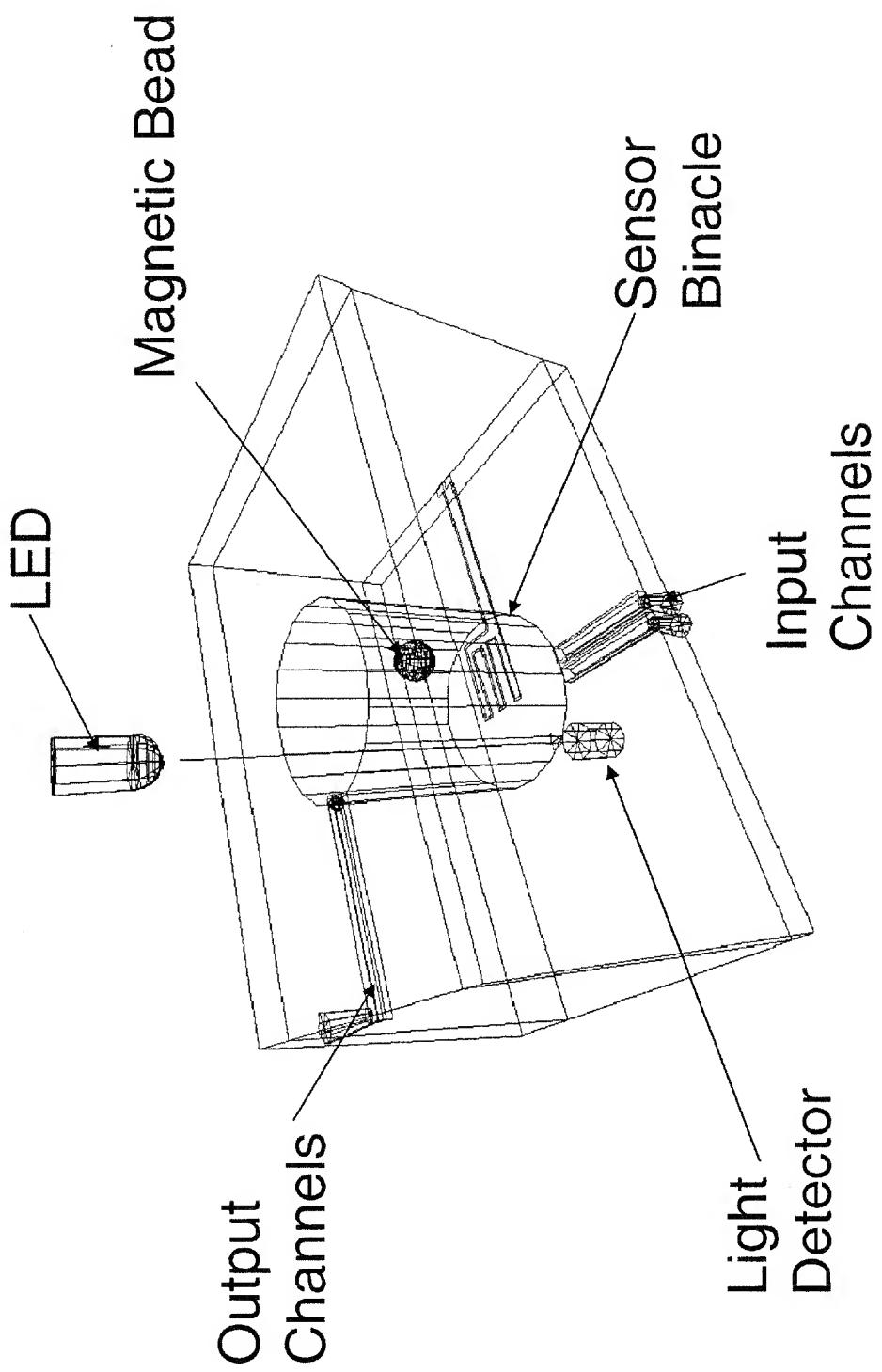


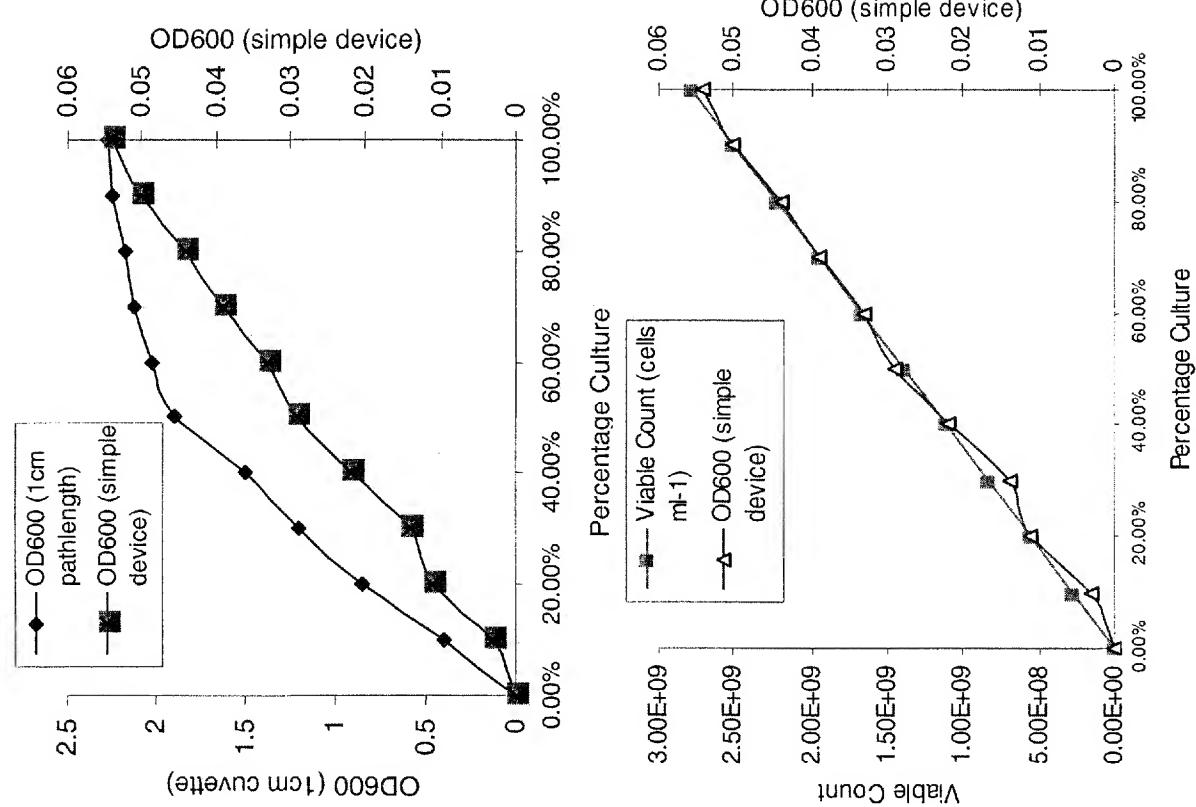
# Classic Fermentation Technology...

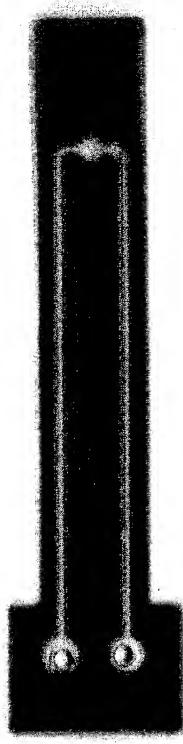




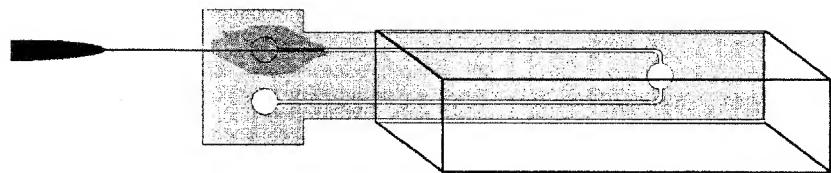
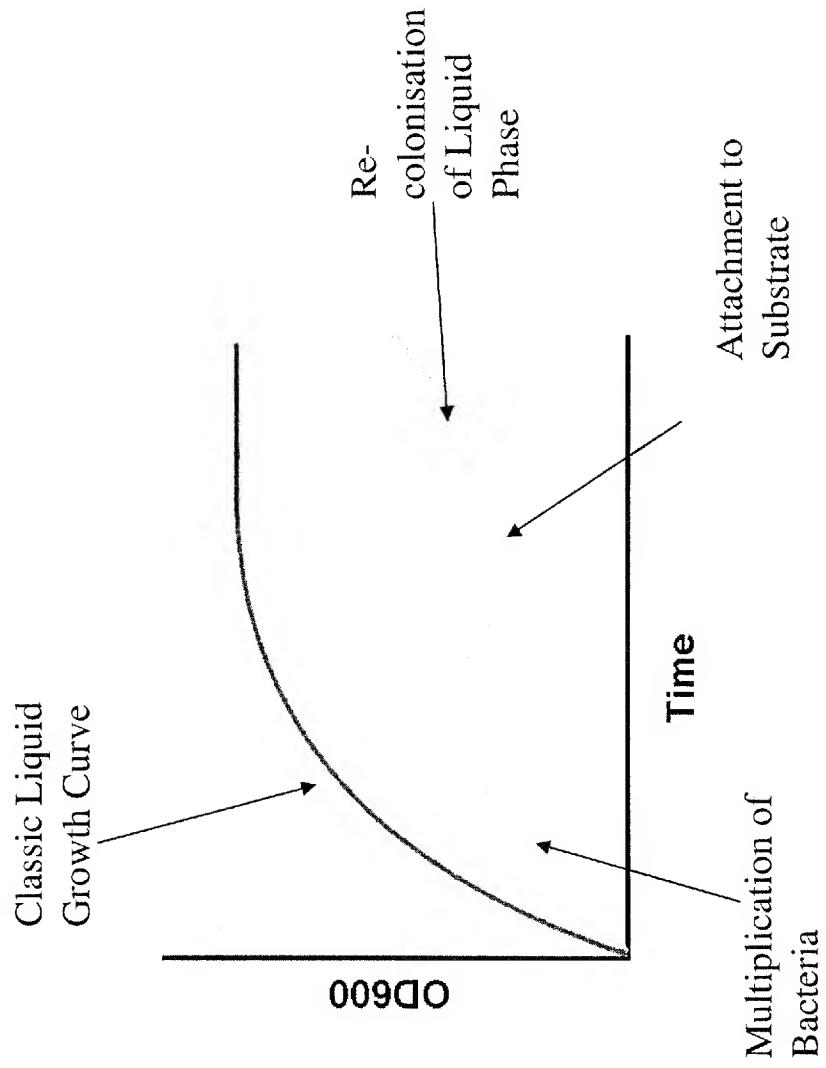


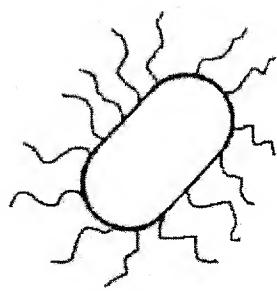




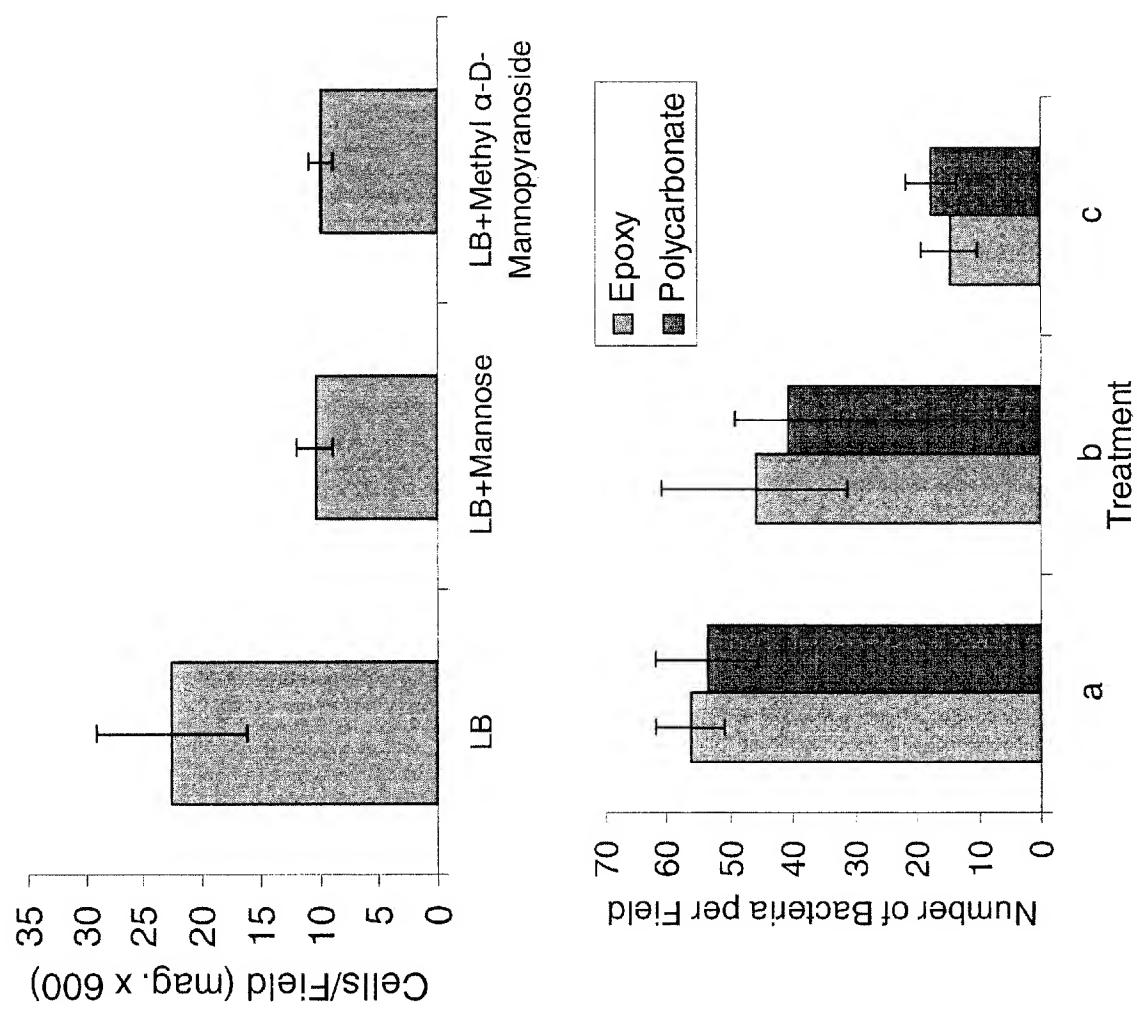


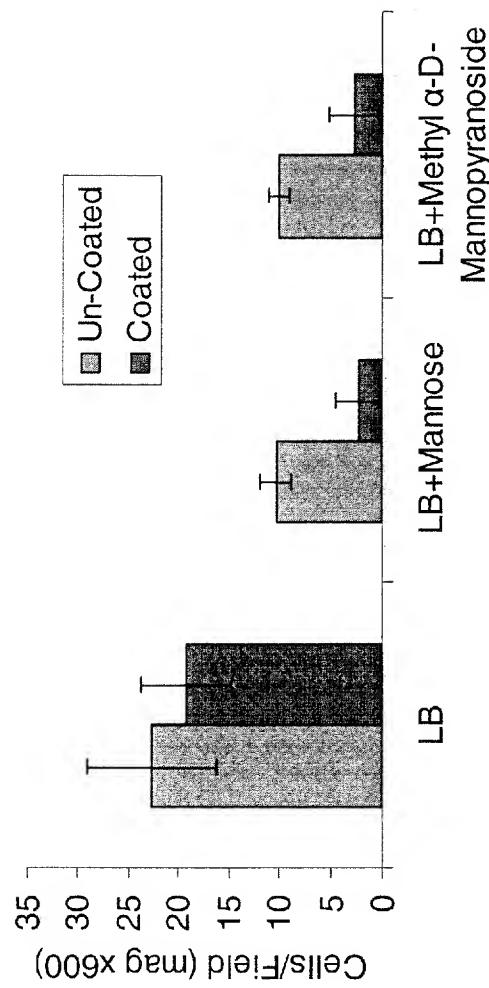
Classic Liquid  
Growth Curve



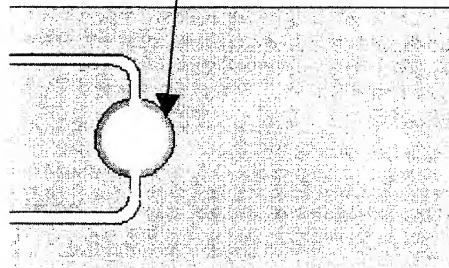


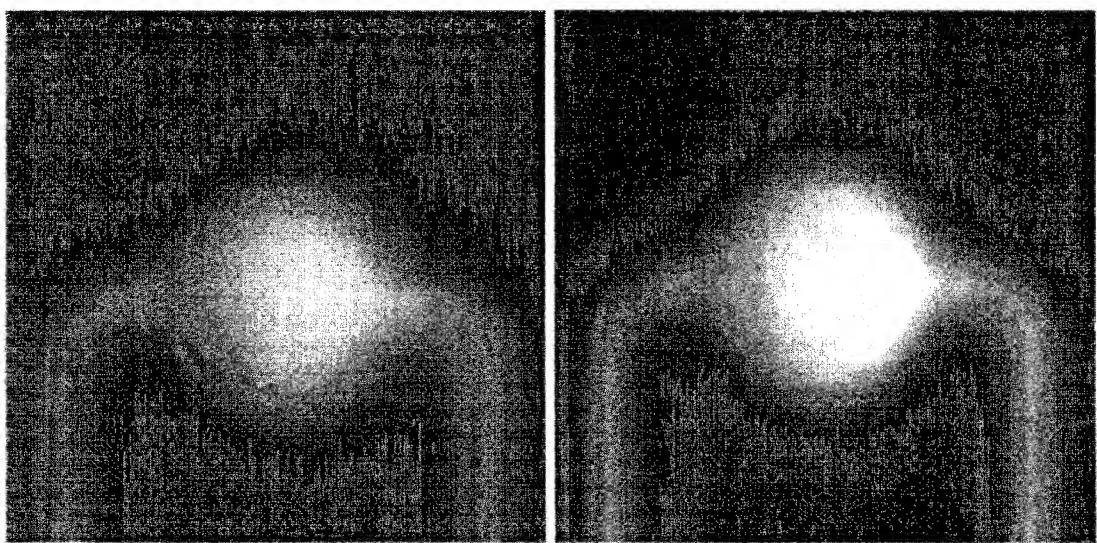
- Hydrophilicity
- Surface Energy
- Surface Smoothness
- Competition for Binding Sites

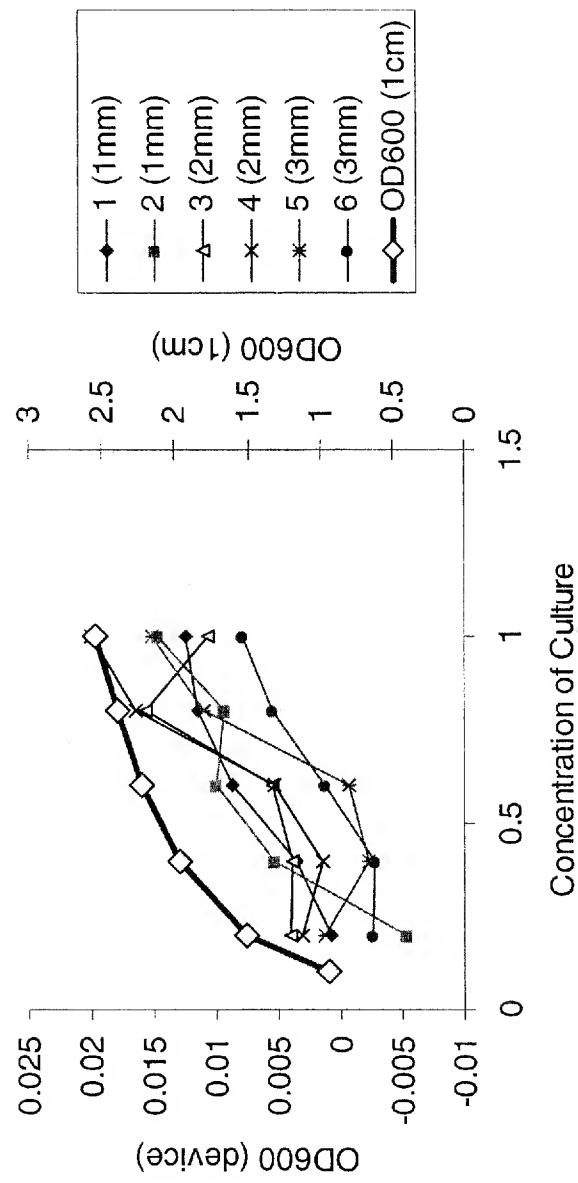
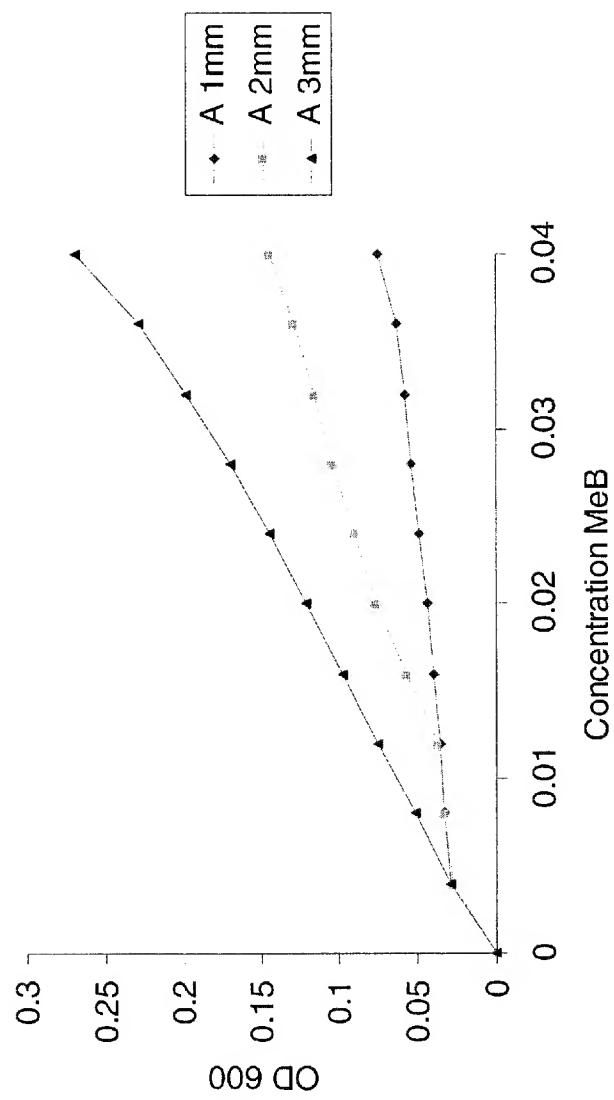


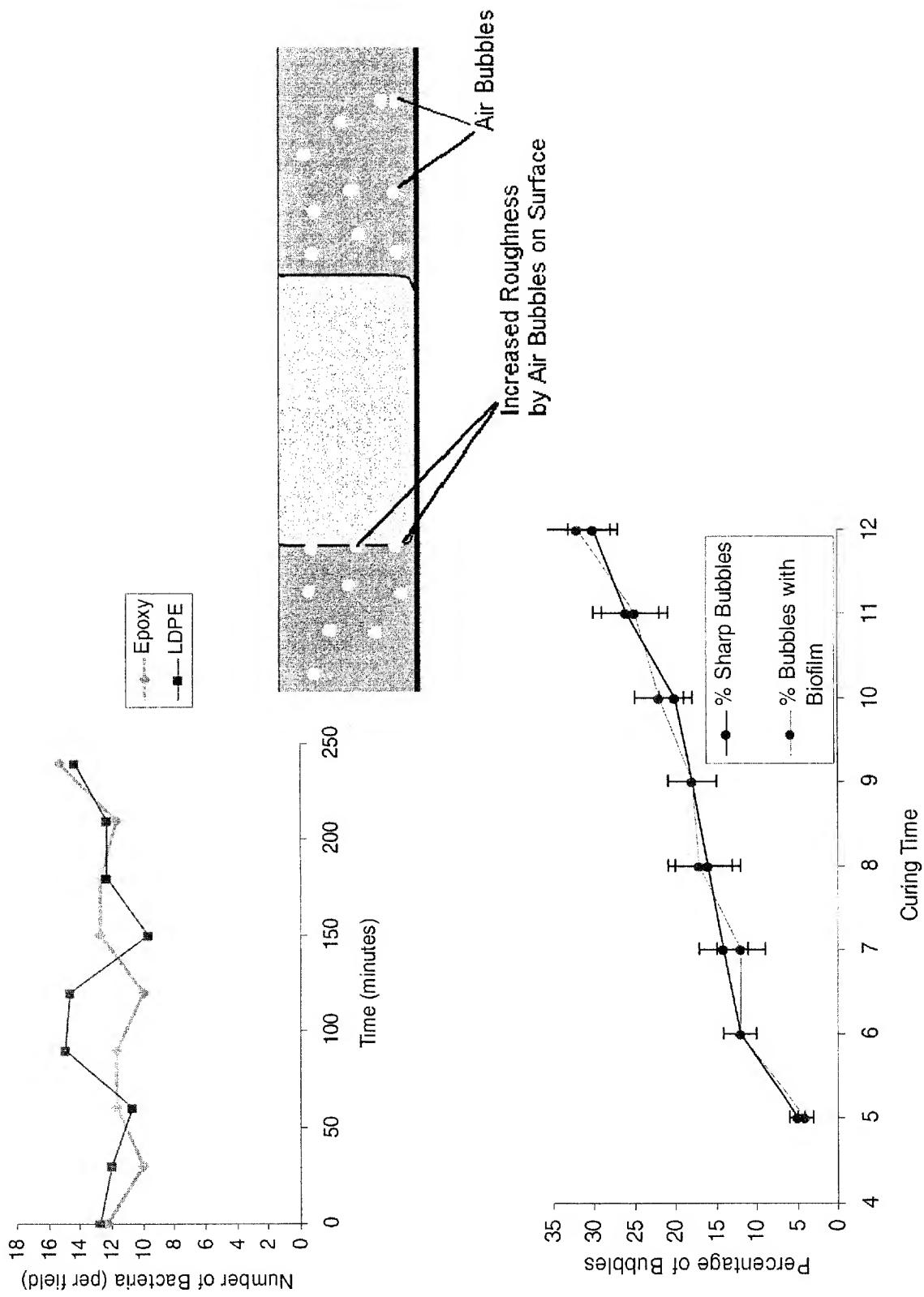


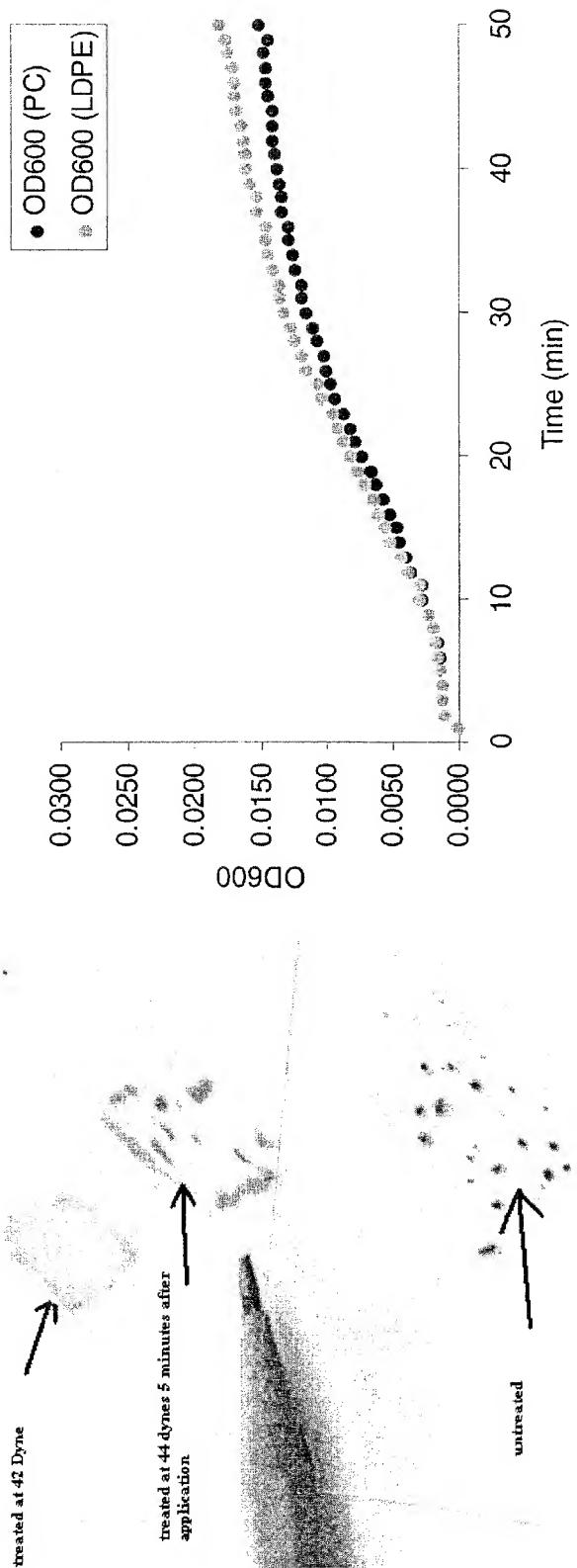
**BUT** There was still some attachment in the area in contact with the epoxy, most likely due to the physical conditions found there...











treated at 42 Dyne

treated at 44 dynes 5 minutes after application

untreated

